

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Currently Amended) A method comprising:
  - generating a compressed medical image from a source medical image at a first location using a lossy compression operation;
  - transmitting the compressed medical image to a remote view station at a second location for display;
  - decompressing the compressed image file at the remote view station;
  - selecting a region of the decompressed medical image at the second location; and
  - at the first location, applying computerized image analysis operations for diagnostic purposes to a region of the source medical image corresponding to the selected region of the decompressed medical image, the image analysis producing a non-image diagnostic result.
2. (Previously Presented) The method of claim 1, wherein transmitting the compressed medical image includes transmitting the compressed medical image over a global packet-switched network.
3. (Previously Presented) The method of claim 1, further comprising:
  - transmitting region information separate from the compressed medical image from the remote view station to an image server at the first location, wherein the region information defines the selected region of the displayed medical image.

4. (Previously Presented) The method of claim 3, wherein the region information comprises pixel coordinates.

5. (Previously Presented) The method of claim 3, further comprising:

at the first location, receiving from the remote view station a request for improved resolution of the selected region;

determining image data to send to the remote view station to provide improved resolution of the selected region; and

sending said image data to the remote view station.

6. (Previously Presented) The method of claim 5, wherein said determining the image data comprises:

identifying pixel data in the source image corresponding to the selected region in the displayed medical image.

7. (Previously Presented) The method of claim 5, wherein said determining the image data comprises:

calculating image data lost in the lossy compression operation.

8. (Previously Presented) The method of claim 1, wherein applying the image analysis operations includes outputting a score and communicating the score to the remote view station for display.

9. (Currently Amended) A system comprising:

an image server at a first location to store a source medical image and to generate a compressed medical image from the source medical image using a lossy compression operation;

a remote view station at a second location communicatively coupled to the image server to receive the compressed medical image, said remote view station including a decoder operative to decompress the compressed medical image to generate a decompressed medical image;

a display to display the decompressed medical image; [[and]]

an input device to enable selection of a region of the decompressed medical image; and

wherein the image server is operative to perform [[an]] image analysis operation for ~~diagnostic purposes~~ on a region of the source medical image that corresponds to a selected region of the decompressed medical image to produce a non-image diagnostic result.

10. (Previously Presented) The system of claim 9, the remote view station is communicatively coupled to the image server via a global packet-switched network.

11. (Previously Presented) The system of claim 9, wherein the remote view station is operative to transmit region information separate from the compressed medical to the image server, wherein the region information defines the selected region of the decompressed medical image.
12. (Previously Presented) The system of claim 11, wherein the region information comprises pixel coordinates.
13. (Previously Presented) The system of claim 11, wherein the image server is operative to:
  - receive from the remote view station a request for improved resolution of the selected region;
  - determine image data to send to the remote view station to provide improved resolution of the selected region; and
  - send said image data to the remote view station.
14. (Previously Presented) The system of claim 13, wherein said determining the image data comprises:
  - identifying pixel data in the source image corresponding to the selected region in the displayed medical image.

15. (Previously Presented) The system of claim 13, wherein said determining the image data comprises:

calculating image data lost in the lossy compression operation.

16. (Previously Presented) The system of claim 9, wherein the image server is further operative to:

output a score; and

communicate the score to the remote view station for display.

17. (Currently Amended) A computer program stored on a computer-readable medium comprising:

generating a compressed medical image from a source medical image at a first location using a lossy compression operation;

transmitting the compressed medical image to a remote view station at a second location for display;

decompressing the compressed image file at the remote view station;

selecting a region of the decompressed medical image at the second location; and

at the first location, applying image analysis operations ~~for diagnostic purposes~~ to a region of the source medical image corresponding to the selected region of the decompressed medical image to produce a non-image diagnostic result.

18. (Previously Presented) The computer program of claim 17, wherein transmitting the compressed medical image includes transmitting the compressed medical image over a global packet-switched network.
19. (Previously Presented) The computer program of claim 17, further comprising:  
transmitting region information separate from the compressed medical image from the remote view station to an image server at the first location, wherein the region information defines the selected region of the displayed medical image.
20. (Previously Presented) The computer program of claim 19, wherein the region information comprises pixel coordinates.
21. (Previously Presented) The computer program of claim 19, further comprising:  
at the first location, receiving from the remote view station a request for improved resolution of the selected region;  
determining image data to send to the remote view station to provide improved resolution of the selected region; and  
sending said image data to the remote view station.

22. (Previously Presented) The computer program of claim 21, wherein said determining the image data comprises:

identifying pixel data in the source image corresponding to the selected region in the displayed medical image.

23. (Previously Presented) The computer program of claim 21, wherein said determining the image data comprises:

calculating image data lost in the lossy compression operation.

24. (Previously Presented) The computer program of claim 17, wherein applying the image analysis operations includes outputting a score and communicating the score to the remote view station for display.